

Title (en)  
PRIMED CELL THERAPY

Title (de)  
THERAPIE MIT PRÄPARIERTEN ZELLEN

Title (fr)  
THÉRAPIE CELLULAIRE AMORCÉE

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Application  
**EP 17000101 A 20091125**

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Abstract (en)  
The subject invention is directed to a composition comprising primed connective tissue cells and a pharmaceutically acceptable carrier thereof.

IPC 8 full level  
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Citation (applicant)  
• US 5858355 A 19990112 - GLORIOSO JOSEPH C [US], et al  
• US 5766585 A 19980616 - EVANS CHRISTOPHER H [US], et al  
• US 5846931 A 19981208 - HATTERSLEY GARY [US], et al  
• US 5700774 A 19971223 - HATTERSLEY GARY [US], et al  
• US 5842477 A 19981201 - NAUGHTON GAIL K [US], et al  
• MANKIN ET AL., J BONE JOINT SURG, vol. 52A, 1982, pages 460 - 466  
• OZKAYNAK ET AL., HMBO J, vol. 9, 1990, pages 2085 - 2093  
• SAMPALH; RUEGCR, COMPLICATIONS IN ORTHO, 1994, pages 101 - 107  
• JOYCE ET AL., J CELL BIOLOGY, vol. 110, 1990, pages 2195 - 2207  
• SPORN; ROBERTS, NATURE (LONDON, vol. 332, 1988, pages 217 - 219  
• MADRI ET AL., J CELL BIOLOGY, vol. 106, 1988, pages 1375 - 1384  
• CHCNU ET AL., PROC NATL ACAD SCI, vol. 85, 1988, pages 5683 - 5687  
• CRITCHLOW ET AL., BONE, 1995, pages 521 - 527  
• LIND ET AL., A ORTHOP SCAND, vol. 64, no. 5, 1993, pages 553 - 556  
• MATSUMOTO ET AL., IN VIVO, vol. 8, 1994, pages 215 - 220  
• MIETTINEN ET AL., J CELL BIOLOGY, vol. 127-6, 1994, pages 2021 - 2036  
• ANDREW ET AL., CALCIF TISSUE IN, vol. 52, 1993, pages 74 - 78  
• BORQUE ET AL., INT J DEV BIOL., vol. 37, 1993, pages 573 - 579  
• CARRINGTON ET AL., J CELL BIOLOGY, vol. 107, 1988, pages 1969 - 1975  
• LIND ET AL., A ORTHOP SCAND., vol. 64, no. 5, 1993, pages 553 - 556  
• LIND, A ORTHOP SCAND, vol. 64, no. 5, 1993, pages 553 - 556  
• O'DRISCOLL, J. BONE JOINT SURG., vol. 80A, 1998, pages 1795 - 1812  
• BEHRINGER ET AL., NATURE, vol. 345, 1990, pages 167  
• PADGETT ET AL., NATURE, vol. 325, 1987, pages 81 - 84  
• WEEKS ET AL., CELL, vol. 51, 1987, pages 861 - 867  
• MASON, BIOCHEM, BIOPHYS. RES. COMMUN., vol. 135, 1986, pages 957 - 964  
• THOMSEN ET AL., CELL, vol. 63, 1990, pages 485  
• SAMPATH ET AL., J. BIOL.-CHEM., vol. 265, 1990, pages 13198  
• MASSAGUE, CELL, vol. 49, 1987, pages 437  
• UNG ET AL., NATURE, vol. 321, 1986, pages 779  
• CHCIFETZ ET AL., CELL, vol. 48, 1987, pages 409  
• MASSAGUE, ANN. REV. BIOCHEM., vol. 67, 1998, pages 753 - 791

Citation (search report)  
• [X] US 2003185809 A1 20031002 - SONG SUN UK [KR], et al  
• [XI] US 2008081369 A1 20080403 - ADKISSON H D IV [US], et al  
• [XI] JAKOB M ET AL: "Specific growth factors during the expansion and redifferentiation of adult human articular chondrocytes enhance chondrogenesis and cartilaginous tissue formation in vitro", JOURNAL OF CELLULAR BIOCHEMISTRY, WILEY-LISS INC, US, vol. 81, no. 2, 1 January 2001 (2001-01-01), pages 368 - 377, XP002173884, ISSN: 0730-2312, DOI: 10.1002/1097-4644(20010501)81:2<368::AID-JCB1051>3.0.CO;2-J  
• [X] MICHAEL P. ZIMMER ET AL: "TGF- [beta] Promotes the Growth of Bovine Chondrocytes in Monolayer Culture and the Formation of Cartilage Tissue on Three-Dimensional Scaffolds", TISSUE ENGINEERING, vol. 1, no. 3, 1 September 1995 (1995-09-01), pages 289 - 300, XP055051004, ISSN: 1076-3279, DOI: 10.1089/ten.1995.1.289  
• [X] LEE J E ET AL: "Effects of the controlled-released TGF-beta1 from chitosan microspheres on chondrocytes cultured in a collagen/chitosan/glycosaminoglycan scaffold", BIOMATERIALS, ELSEVIER SCIENCE PUBLISHERS BV., BARKING, GB, vol. 25, no. 18, 1 August 2004 (2004-08-01), pages 4163 - 4173, XP004497077, ISSN: 0142-9612, DOI: 10.1016/J.BIOMATERIALS.2003.10.057

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CN 102292092 B 20140507; EP 2381789 A1 20111102; EP 2381789 A4 20130313; EP 3243388 A1 20171115; JP 2012509942 A 20120426;  
JP 2017008053 A 20170112; JP 2018083810 A 20180531; JP 6156968 B2 20170705; JP 6349353 B2 20180627; KR 102418479 B1 20220707;  
KR 20110089876 A 20110809; KR 20140136061 A 20141127; KR 20190084341 A 20190716; KR 20210005955 A 20210115;  
KR 20220100999 A 20220718; SG 171800 A1 20110728; US 11248211 B2 20220215; US 2010316612 A1 20101216

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**US 2009065996 W 20091125**; AU 2009324832 A 20091125; AU 2016225789 A 20160905; AU 2018203611 A 20180522;  
AU 2020202622 A 20200417; CA 2744445 A 20091125; CN 200980155331 A 20091125; EP 09832377 A 20091125; EP 17000101 A 20091125;  
JP 2011538703 A 20091125; JP 2016134404 A 20160706; JP 2017223383 A 20171121; KR 20117014554 A 20091125;  
KR 20147030632 A 20091125; KR 20197019444 A 20091125; KR 20207036161 A 20091125; KR 20227022743 A 20091125;  
SG 2011037371 A 20091125; US 62656709 A 20091125